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features of your new air conditioner

- **Cool Summer Offer**

  On those hot sweltering summer days and long restless nights, there is no better escape from the heat than the cool comforts of home. Your new air conditioner brings an end to exhausting hot summer days and lets you rest. This summer, beat the heat with your own air conditioner.

- **Cost Efficient System**

  Your new air conditioner not only provides maximum cooling power in the summer, but can also be an efficient heating method in the winter with the advanced “Heat pump” system. “Heat pump” system is 3 times more efficient compare to the other electrical heating appliance, so you can further reduce its running cost. Now, meet year-round needs with one air conditioner.

- **Look for Everywhere**

  The elegant and harmonious design gives priority to the esthetics of your space and complements any of your existing interior décor. With its soft color and rounded-edge shape, the new air conditioner adds class to any room. Enjoy what your air conditioner offers both functionally and esthetically.

- **good’sleep function**

  good’sleep function allows you to set a comfortable sleep temperature while saving energy and having sound sleep.

- **mpi (micro plasma ion) function**

  mpi function generates hydrogen(H) and oxygen(O2) to attack undesirable air contaminants such as bacteria, pollen, and odor. It makes you breathe better as if you were staying around waterfalls, ocean surf, rivers and mountains.

SAMSUNG

For easy future reference write the model and serial number down. You will find your model number on the bottom side of the air conditioner.

Model #_____
Serial #_____

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safety information

To prevent electric shock, disconnect the power before servicing, cleaning, and installing the air conditioner.

SAFETY INFORMATION

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

Important safety symbols and precautions:

WARNING	Hazards or unsafe practices that may result in **severe personal injury or death.**
CAUTION	Hazards or unsafe practices that may result in **minor personal injury or property damage.**
CAUTION	To reduce the risk of fire, explosion, electric shock, or personal injury when using your air conditioner, follow these basic safety precautions:

	Do NOT attempt.
	Do NOT disassemble.
	Do NOT touch.
	Follow directions carefully.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the contact center for help.
	Note.

These warning signs are here to prevent injury to you and others.
Please follow them carefully.
After reading this section, keep it in a safe place for future reference.

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safety information

⚠ WARNING SEVERE WARNING SIGNS

Do not place the air conditioner near hazardous substances or equipment that releases free flames to avoid fire, explosions or injuries.
- Potential risk of fire hazard or explosion.

Do not install the outdoor unit at an unstable place or elevated surface where there is potential risk of falling.
- If the outdoor unit falls, it may cause personal injury or loss of property.

Failure or damage may occur if any changes or modification that is not stated in the installation manual was performed. In this case, user will be responsible for the repair expenses.

Install the air conditioner away from direct exposure to sunlight, heating apparatus, and humid places.
- Hang curtains on windows to boost cooling efficiency and to avoid the risk of electric shock.

Do not cut the power plug and connect to a different power cable.

Do not yank the power cable and touch the power plug with hands.
- Potential risk of fire or electric shock.

Never use a damaged or dusted power plug, power cable, or loosened power receptacle.
- Potential risk of fire or electric shock.

Install an exclusive circuit breaker and short-circuit breaker for the air conditioner.
- Potential risk of electric shock or fire.

Do not insert anything such as fingers or branches into the air conditioner vents while the air conditioner is running.
- Keep the children away from the air conditioner to prevent them from putting their finger on the air conditioner. Potential risk of personal injury.

Ensure no water gets into the air conditioner.
- Potential risk or electric shock.
- If the water gets into the air conditioner, stop and unplug the power source immediately.

Turn off the air conditioner using the provided remote control or control accessory (if provided). Do not unplug to turn off the unit (unless there is an immediate danger).

Do not run the air conditioner for an extended period of time in a room with the door closed or with babies, elderly or disabled people.
- Open the door or windows to ventilate your room at least once an hour to prevent oxygen shortage.

The air conditioner is composed of moving parts. Keep children away from the unit to avoid physical injury.

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Make sure that children take precautions against access to the air conditioner and they do not play with the unit.

Do not clean the interior of air conditioner on your own.

- You may damage the parts which can cause electric shock or fire.
- Consult contact center for cleaning the interior of the air conditioner.

Do not connect the air conditioner with heating apparatus or attempt to disassemble, remodel or repair it yourself.

- Potential risk of malfunction, electric shock or fire. If repairs are needed, consult the contact center.

Consult the place of purchase or contact center to install, reinstall or disassemble the air conditioner.

- Improper installation carries a risk of unit malfunction, water leakage, electric shock or fire.
- If installing in specialty areas, such as a factory complex or saline coastal area, consult the place of purchase or contact center for specific installation details.
- The units must be installed according to distances declared, in order to permit accessibility from each side, either to guarantee correct operation of maintenance or repairing products. The unit's parts must be reachable and removable completely under safety condition (for people or things).

Consult a dealer regarding the appropriate measures to prevent the allowable concentration from being exceeded.

- If the refrigerant leaks, and cause the concentration limit to be exceeded, hazards due to lack of oxygen in the room may result.

If the indoor unit gets wet, turn the power off immediately and call your nearest contact center.

- Potential risk of fire or electric shock.

Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.

Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.

Use a rated circuit breaker only.

- Never use steel wires or copper wires as a circuit breaker. It may cause fire or unit malfunctions.

Do not put undue stress or place heavy object on the power cable.

Do not bend the power cable excessively.

- Potential risk of fire or electric shock.

To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the protection tube.

When opening or closing the front panel, use a stable stool and watch your steps carefully.

Disconnect the air conditioner from power supply before it is repaired or disassembled.

Clean the air conditioner after the inner fan stops operating.

- Potential risk of injury or electric shock.

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safety information

⚠ WARNING SEVERE WARNING SIGNS (CONT'D)

Use a receptacle that has a ground terminal. The receptacle must be used exclusively for the air conditioner.
- Improper electrical grounding may cause electric shock or fire.

Be sure to ground the unit. Do not connect the ground wire to gas or water pipes, lighting rods, or telephone grounding lines.
- If the unit is not properly grounded, electric shock may result.

If you smell burning plastic, hear strange sounds, or see smoke coming from the unit, unplug the air conditioner immediately and call a contact center.
- Potential risk of fire or electric shock.

⚠ CAUTION CAUTION SIGNS

Do not block or place items in front of the air conditioner. Do not step, hang onto, or place heavy items on the air conditioner.
- Potential risk of personal injury.

If failure or damage occurs on the conditions of improper use not followed by the installation manual, there will be an extra labor charge for installing and construction.
- Potential risk of malfunction, electric shock or fire if repairs or installations are attempted by a non-qualified service technician.

Do not spray flammable gases such as insecticide near the air conditioner.
- Potential risk of electric shock, fire or unit malfunction.

Do not open the front grille during operation.
- Potential risk of electric shock or unit malfunction.

Cool air should not flow directly towards people, pets, and plants.
- It is harmful to your health, pets, and plants.

Do not drink drain water coming out of the air conditioner.
- Potential risk of health hazard.

Do not allow children to climb on the air conditioner.

Do not use the air conditioner as a cooling precision instrument for food, pets, plants, cosmetics or machinery.

Do not pull or give excessive shock to the air conditioner.
- Potential risk of fire, or unit malfunction and there are risk of personal injury because unit may fall down.

Do not spray water directly on the air conditioner or use benzene, thinner or alcohol to clean the surface of the unit.
- Potential risk of electric shock or fire.
- Potential risk of damage to the air conditioner.

Do not place any objects, especially containers with liquid.

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Do not touch the pipe connected to the air conditioner.

Install the indoor unit away from lighting apparatus using the ballast.
- If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.

Install the outdoor unit where operating noise and vibration will not disturb your neighbor and in a well-ventilated area with no obstacle.
- Potential risk of malfunction.
- Operating noise may disturb your neighbor.

Make sure that there are no obstacles or covers that block the air conditioner.

Allow sufficient space for air circulation.
- Insufficient ventilation may result in poor performance.

If the power cable is damaged, the manufacturer or a qualified service technician must replace it.

If a power outage occurs while the air conditioner is working, turn off the power source immediately.

Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.

Check for damage on delivery. If damaged, do not install the air conditioner and call the place of purchase immediately.

Keep indoor temperatures stable and not extremely cold, especially where there are children, elderly or disabled people.

The packaging material and used batteries of the remote controller (optional) must be disposed of in accordance with the national standards.

The refrigerant used in the air conditioner must be treated as chemical waste. Dispose the refrigerant following national standards.

Have a qualified service technician install the air conditioner and perform a trial operation.

Firmly connect the drain hose to the air conditioner for proper water drainage.

Check for damages on the outdoor unit installation pad at least once a year.
- Potential risk of personal injury or property loss.

When using a wireless remote control, the distance should not be more than 7 meters from the air conditioner.

If the remote control is not used for a long period of time, remove the batteries to prevent leakage of electrolyte.

When cleaning the outdoor unit, touch the heat exchanger radiator fins with extreme care.
- Wearing thick gloves can protect your hands.

Make sure that the condensed water dripping from the drain hose runs out properly and safely.

The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety: Young children should be supervised to ensure that they do not play with the appliance.

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safety information

CAUTION SIGNS (CONT'D)

Inspect the condition, electric connections, pipes and external case of the air conditioner regularly by a qualified service technician.

Do not open doors and windows in the room being cooled during operation unless necessary.

Do not block the air conditioner vents. If objects block the air flow, it may cause unit malfunction or poor performance.

Make sure there are no obstacles under the indoor unit.

- Potential risk of fire or loss of property.

The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.

Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things.

For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

Ensure the off-on and protection switches are properly installed.

Do not use the air conditioner if damaged. If problems occur, immediately stop operation and disconnect the plug from the power supply.

If the air conditioner will not be used for an extended period of time (for example, over several months), unplug the power from the wall.

Call the place of purchase or a contact center if repairs are needed.

- Potential risk of fire or electric shock if disassembly or repairs are attempted by a non-qualified service technician.

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ENGLISH

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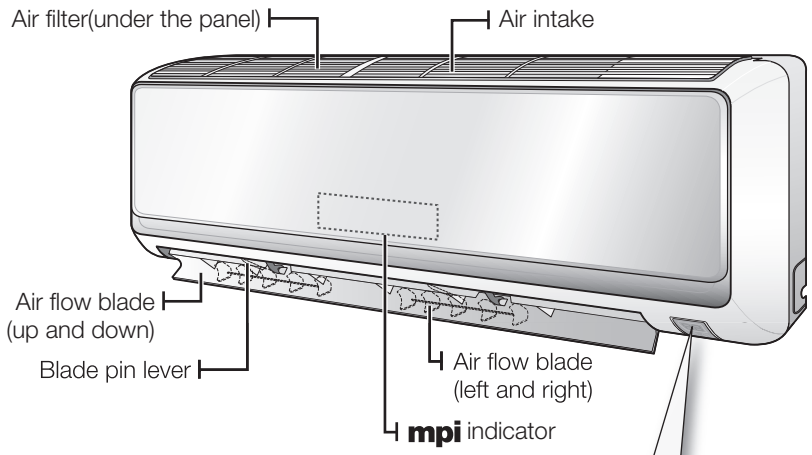
viewing your air conditioner

Congratulations on the purchase of the air conditioner. We hope you enjoy the features of your air conditioner and stay cool or warm with optimal efficiency.
Please read the user manual to get started and to make the best use of the air conditioner.

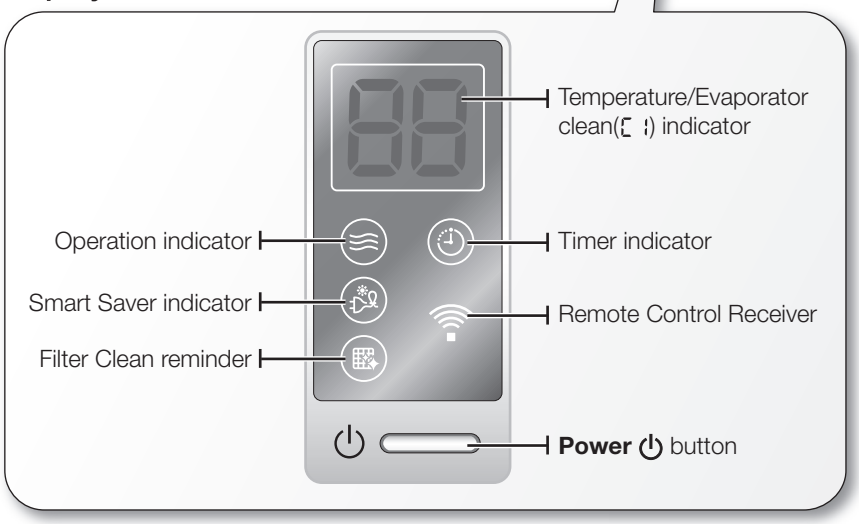
CHECKING THE INDOOR UNIT AND DISPLAY

Carefully unpack your air conditioner, and check the unit to make sure it is not damaged.

Main parts



Display



Your air conditioner may slightly look different from illustration shown above depending on your model.

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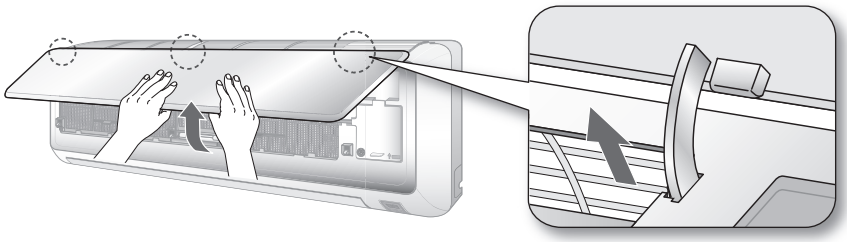
OPENING THE FRONT PANEL

Tightly grab front side of the front panel and lift up the panel to open. Then slightly push the panel up until the panel is hanged over the hooks of the unit.

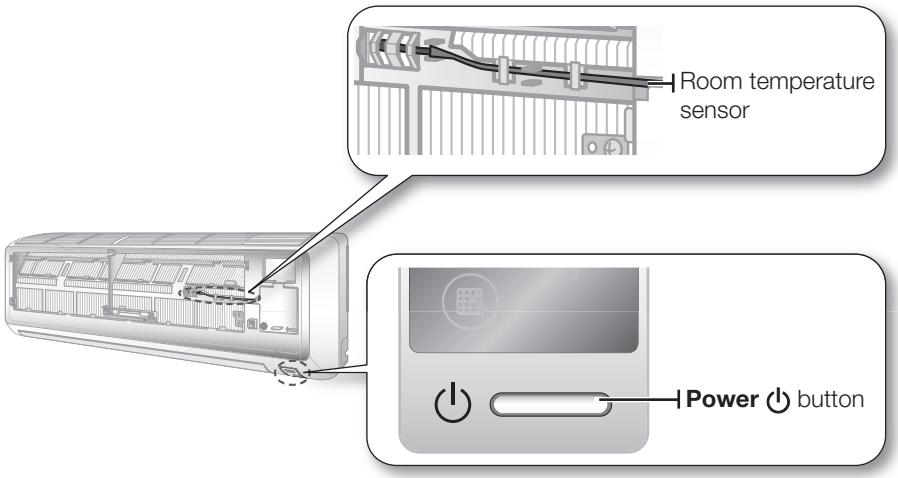


Power button, Room temperature sensor

You may locate the **Power** ⏻ button on the right bottom side of the air conditioner. If the front panel is open, you can check the room temperature sensor.

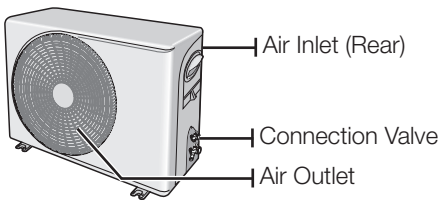
You can turn on the air conditioner without the remote control by pressing the **Power** ⏻ button. The room temperature sensor measures indoor room temperature.

⚠ CAUTION Make sure room temperature and humidity sensor does not get damaged.

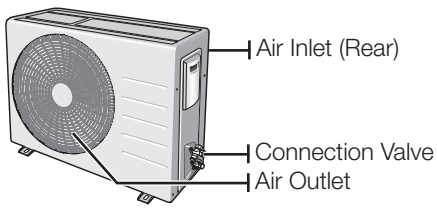


CHECKING THE OUTDOOR UNIT

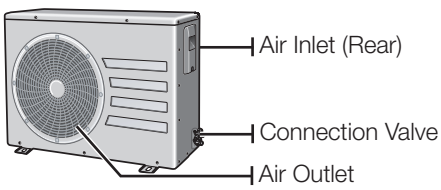
AQ09E Series/AQ12E Series



AQ18E Series



AQ24E Series



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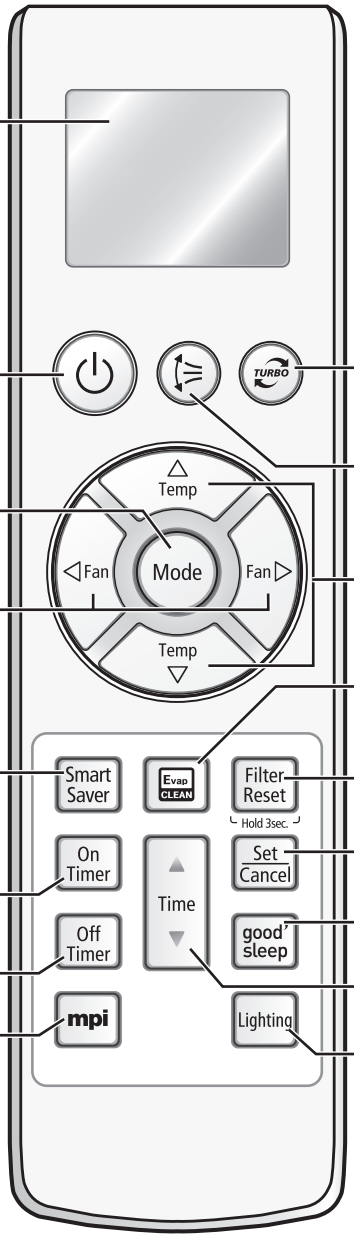
viewing your air conditioner

CHECKING THE REMOTE CONTROL

You can activate the air conditioner by pointing the remote control away from it. When using the remote control, always point it directly at the air conditioner.



Remote Control display

Power ⏻
Turn on/off the air conditioner.

Mode
Set one of the 5 operating modes. (See pages 14~18 for instructions.)

Fan ◁ ▷
Adjust how much air flows through the air conditioner with the 4 different fan speeds such as Auto/Low/Medium/High.

Smart Saver
Less energy usage makes your space cool between the temperature range of 24ºC~30ºC.

On Timer
Set the On Timer on.

Off Timer
Set the Off Timer on.

mpi
Set the mpi mode on/off.

Turbo TURBO
Operate in auto fan speed to cool/warm quicly.

Air swing
Activate/Deactivate air flow blade movement automatically up and down.

Temp △▽
Increase/Decrease the temperature by 1˚C.

Evap.CLEAN Evap. CLEAN
Evaporator clean function – Dry inside of the indoor unit to get rid of odor.

Filter Reset
Reset the Filter Clean reminder.

Set/Cancel
Set/Cancel the timer/**good' sleep** function.

good' sleep
Set the **good' sleep** mode on.

Time ▲▼
Adjust the time for timer/**good' sleep** function.

Lighting
When the "Lighting" button is pressed, the display in the indoor unit is off.
When the "Lighting" button is pressed again, the display is on again.

When you press the button, a short beep will sound and a transmit indicator(📶) appears on the remote control display.

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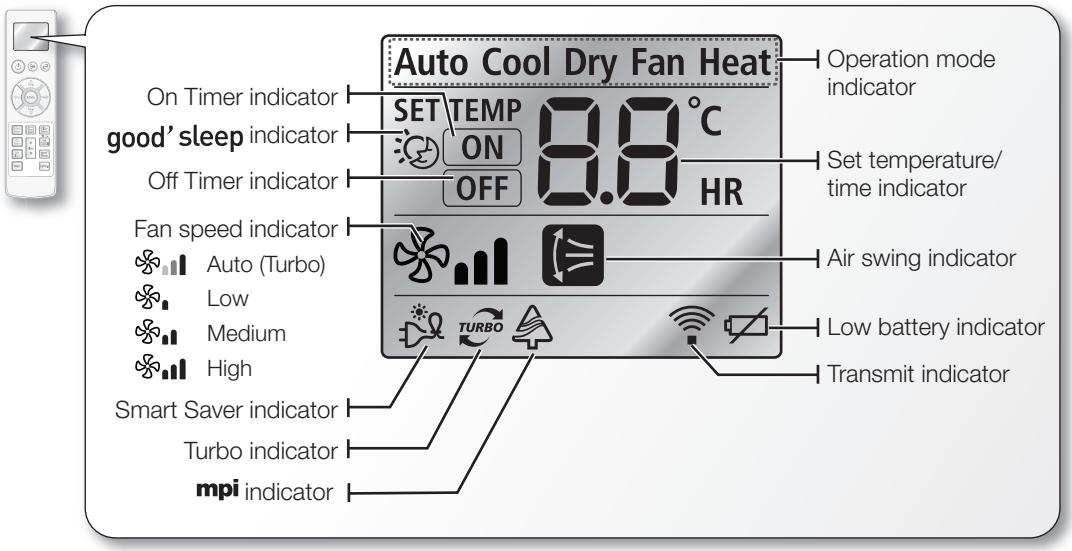
Remote control display

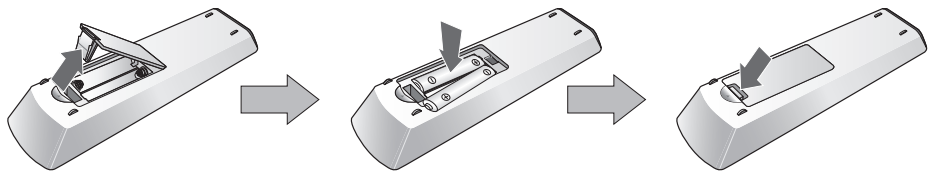


Using the remote control

- Point the remote control towards the remote control sensor of the unit (see page 10 to find the location of remote control receiver).
- When properly pressing the button on the remote control, you will hear beep sound from the unit.

- The signal may not be received well of electronic lighting style fluorescent lamps, such as inverter fluorescent lamps are in the same space.
- If other electrical products operate by the remote control, call your nearest contact center.

Inserting the batteries



1. **Push the lever as arrow indicates on the rear side of the remote control and pull up.**
2. **Insert two AAA batteries.**
   Check and match the "+" and "-" signs accordingly. Make sure you have inserted the batteries in correct position.
3. **Close the cover by place it back to its original position.**
   You should hear click sound when the cover is locked properly.

ENGLISH

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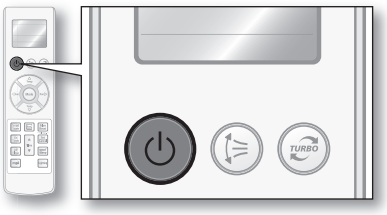
operating basic function

TURNING THE AIR CONDITIONER ON AND OFF

Press the **Power** ⏻ button on the remote control.



You will hear a ringing sound and the air flow blade will move up and down automatically when the air conditioner is properly on.
The air conditioner will operate in the most recent operation mode used or Auto mode.

When you turn off the air conditioner, air flow blade will stop moving and remain closed.

Turning on/off your air conditioner without the remote control.

You can operate your air conditioner by pressing the **Power** ⏻ button on the right bottom side of the air conditioner.

SELECTING OPERATION MODE

Auto

In Auto mode, the air conditioner will automatically set the temperature and fan speed depending on the room temperature detected by the room temperature sensor.

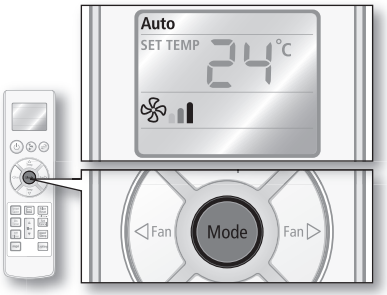
1. Turn on the air conditioner.

   Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

   Press the **Mode** button on the remote control until Auto mode and Auto fan speed indicator appear on the remote control display.

   The air conditioner will automatically set the operation mode to Cool or Heat depends on the room temperature.

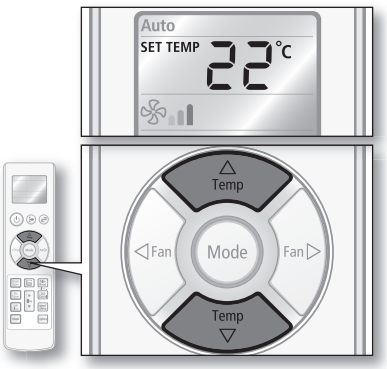


Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry, Fan and Heat.

3. Adjust the temperature (if you need to increase or decrease the room temperature).

   Press the **Temp** △ or ▽ button on the remote control to increase or decrease the desired temperature.

   You can set the desired temperature between the range of 16˚C~30˚C.



You can increase/decrease the temperature by 1˚C.

- While you are using the remote control, make sure correct indicator which matches your selection appears on the remote control display.
- Air flow can be adjusted manually. (See page 19 for instructions.)

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Cool

In Cool mode, the air conditioner will cool your room. You can adjust the temperature and the fan speed to feel cooler in hot season.

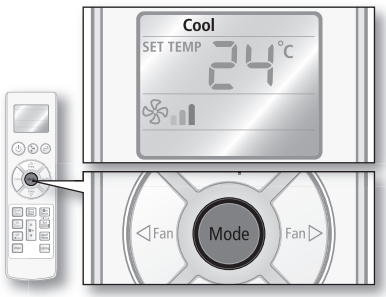
1. Turn on the air conditioner.

Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

Press the **Mode** button on the remote control until Cool mode indicator appears on the remote control display.

The air conditioner operates in Cool mode and it will lower the temperature in your room.

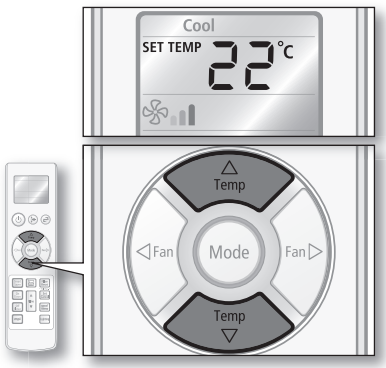


Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry, Fan and Heat.

3. Set the temperature.

Press the **Temp** △ or ▽ button on the remote control to increase or decrease the desired temperature.

You can set the desired temperature between the range of 16℃~30℃.

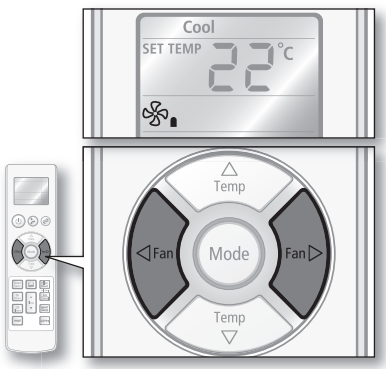


You can increase/decrease the temperature by 1℃.

4. Set the fan speed.

Press the **Fan** ◁ or ▷ button on the remote control to set the desired fan speed.

If room temperature reaches desired value, the air conditioner will shut off cooling for a while and just the fan runs.



Each time you press the **Fan** ◁ or ▷ button, fan speed will change in order of Auto, Low, Medium and High.

- While you are using the remote control, make sure correct indicator which matches your selection appears on the remote control display.
- Air flow can be adjusted manually. (See page 19 for instructions.)
- If current outside temperatures are much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness.

ENGLISH

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operating basic function

SELECTING OPERATION MODE

Dry

The air conditioner in Dry mode acts like a dehumidifier by removing moisture from the indoor air. Dry mode makes the air feel refreshing in a humid climate.

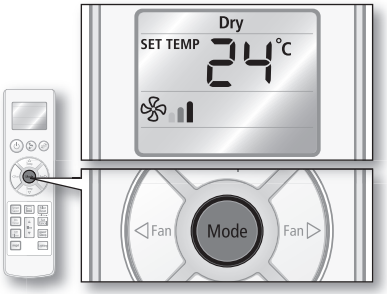
1. Turn on the air conditioner.

   Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

   Press the **Mode** button on the remote control until Dry mode and Auto fan speed indicator appear on the remote control display.

   You can set the desired temperature between the range of 18℃~30℃.



Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry, Fan and Heat.

- While you are using the remote control, make sure correct indicator which matches your selection appears on the remote control display.
- Temperature/Fan speed cannot be adjusted while using this mode.
- Air flow can be adjusted manually. (See page 19 for instructions.)

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Fan

Fan mode can be selected to ventilate your room. Fan mode will be helpful to refresh the stale air in your room.

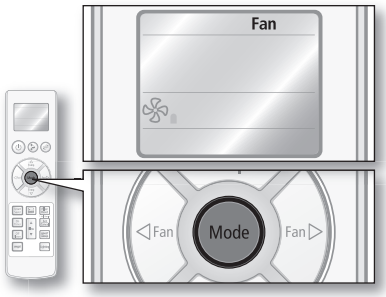
1. Turn on the air conditioner.

Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

Press the **Mode** button on the remote control until Fan mode indicator appears on the remote control display.

The air conditioner operates in Fan mode and automatically adjusts the temperature according to the current room temperature.

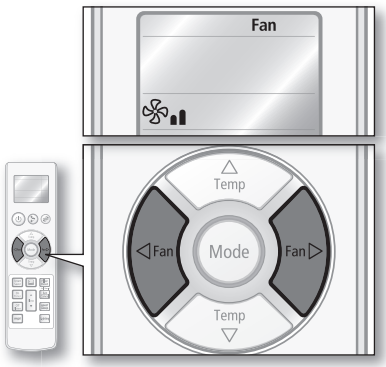


Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry, Fan and Heat.

---

3. Set the fan speed.

Press the **Fan** ◁ or ▷ button on the remote control to set the desired fan speed.



Each time you press the **Fan** ◁ or ▷ button, fan speed will change in order of Low, Medium and High.

- While you are using the remote control, make sure correct indicator which matches your selection appears on the remote control display.
- Air flow can be adjusted manually. (See page 19 for instructions.)

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operating basic function

SELECTING OPERATION MODE

Heat

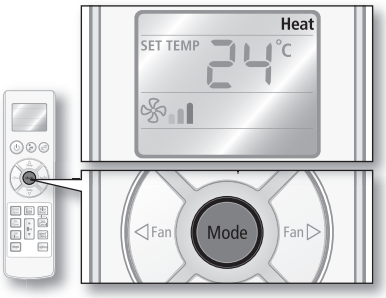
The air conditioner heats as well as cools. Warm your room with this versatile appliance in the cold of winter.

1. Turn on the air conditioner.

Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

Press the **Mode** button on the remote control until Heat mode indicator appears on the remote control display. The air conditioner operates in Heat mode and warms your room.

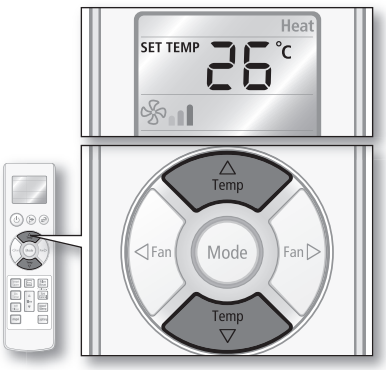


Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry, Fan and Heat.

3. Set the temperature.

Press the **Temp** △ or ▽ button on the remote control to increase or decrease the desired temperature.

You can set the desired temperature between the range of 16℃~30℃.

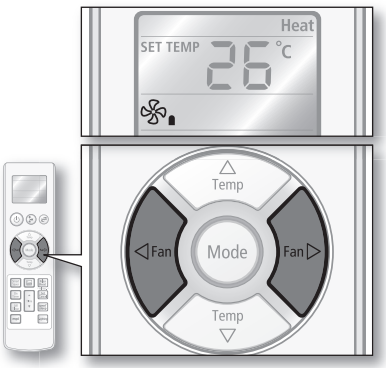


You can increase/decrease the temperature by 1℃.

4. Set the fan speed.

Press the **Fan** ◁ or ▷ button on the remote control to set the desired fan speed.

If room temperature reaches desired value, heating will stop for a while.



- Each time you press the **Fan** ◁ or ▷ button, fan speed will change in order of Auto, Low, Medium and High.
- Fan may not operate for about 3~5 minutes at the beginning to prevent any cold blasts while the air conditioner is warming up.

- Air flow can be adjusted manually. (See page 19 for instructions.)
- Since the air conditioner heats the room by taking heat energy from outdoor air, the heating capacity may decrease when outdoor temperatures are extremely low. Use an additional heating appliance in combination with the air conditioner if you feel the air conditioner heats insufficiently.

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ADJUSTING THE AIR FLOW DIRECTION

Air flow can be directed to your desired position.

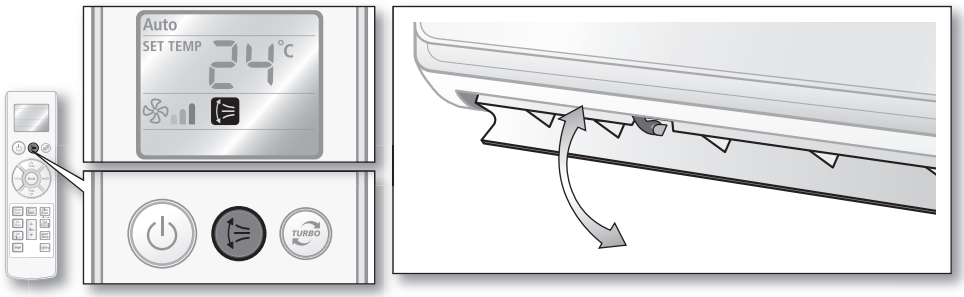
Vertical air flow

Air flow blades move up and down.

1. Press the **Air swing** button on the remote control.

   Air swing indicator will be on and air flow blades move up and down continuously to circulate the air.

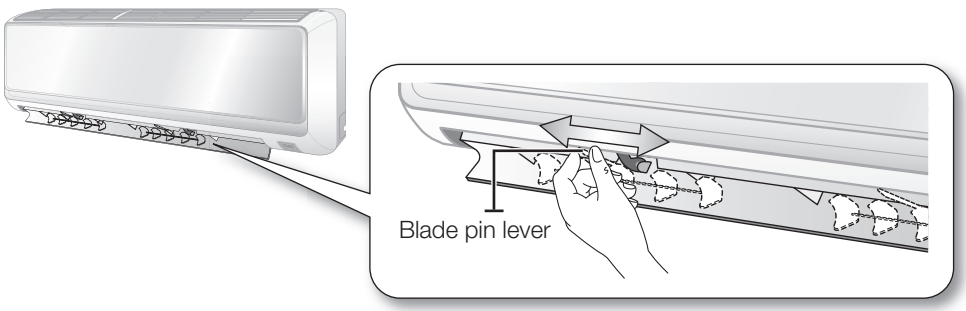
   Press the **Air swing** button on the remote control again, to keep the air flow direction in a constant position.



Horizontal air flow

Make sure one of the blade pins that stick out of the air flow blades are not broken.

1. Move the blade pin lever left or right to keep the air flow direction in a constant position you prefer.



CAUTION Be extremely careful with your fingers while adjusting the Horizontal air flow direction. There is a potential risk of personal injury when the unit is mishandled.

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using advanced functions

USING THE TURBO FUNCTION

Turbo function will be helpful to cool or heat your room quickly and effectively by operating at the maximum fan speed for 30 minutes.

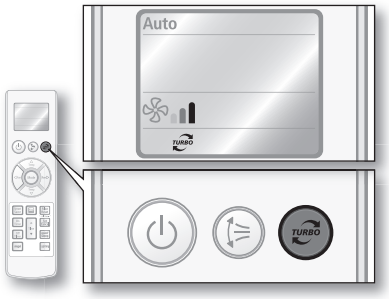
1. Turn on the air conditioner.

   Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

   Press the **Turbo** TURBO button on the remote control until Turbo indicator appears on the remote control display.

   The air conditioner operates in Auto fan speed and automatically adjusts the temperature according to the current room temperature. The unit operates for 30 minutes and then operates in last used mode, or in Auto mode if Dry/Fan mode is most recent mode used.



Turbo function is only available in Auto/Cool/Heat mode. If Turbo function is selected in Dry/Fan mode, operating mode changes to Auto.

To deactivate Turbo function

1. Press the **Turbo** TURBO button on the remote control while Turbo function is on.

   The air conditioner operates in last used mode, or in Auto mode if Dry/Fan mode is most recent mode used.

- While you are using the remote control, make sure corresponding indicator appears on the remote control display.
- Temperature/Fan speed cannot be adjusted while using this function.
- Air flow can be adjusted manually. (See page 19 for instructions.)
- If you press the **Mode** button while the Turbo function is on, it will cancel the function.

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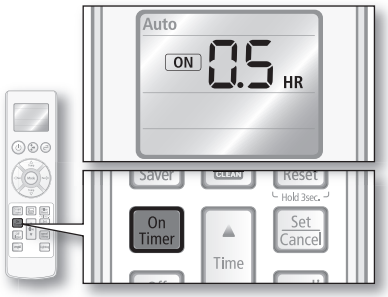
SETTING TIMER

This advanced Timer function allows you to turn on/off your air conditioner automatically even when you are away. Simply set the time and your air conditioner will turn on/off automatically.

On timer

This function allows you to turn on the air conditioner automatically within the time range of 24 hours.
On timer is available while your air conditioner is off.



1. Press the **On Timer** button on the remote control.

   On timer indicator blinks on the remote control display.

2. Set the time you want the air conditioner to turn on automatically.

   Press the **Time** ▲ or ▼ button on the remote control to change the time setting while On timer indicator is blinking.

   You can set the time up to 24 hours, increasing in 30 minute unit up to first 3 hours and in hourly unit after first 3 hours.

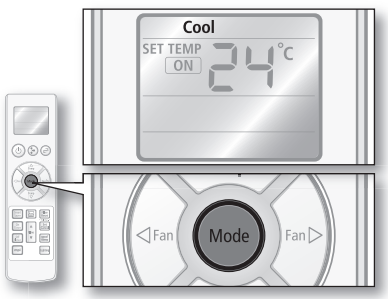
3. Press the **Set/Cancel** button on the remote control to active it on.

   The remote control display will show the hour(s) you have set for 3 seconds and set desired temperature will display.
   The air conditioner will operate automatically at set time and then On timer indicator stops blinking and stays on. If On timer is not set within 10 seconds, the air conditioner will end setting.

4. Set the operating mode.

   Press the **Mode** button on the remote control until the desired mode appears on the remote control display.

   The air conditioner will operate in the mode you set.



On timer function is available in Auto/Cool/Dry/Fan/ Heat mode.

- Temperature can also be adjusted. (See step 3 on page 14 for instructions.)
- All the indicators other than On Timer indicator will disappear approximately after 10 seconds after the setup.
- When the On Timer setting is done, you can press the **On Timer** button again to change the preset time. Press the **Time** ▲ or ▼ button to change time setting and then press the **Set/Cancel** button to active it on.

To deactivate the On timer

1. Press the **Set/Cancel** button on the remote control while On Timer is on.

   On timer you set will be canceled and On timer indicator will disappear.

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using advanced functions

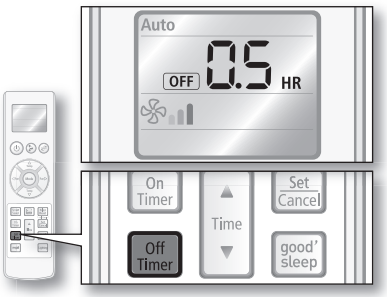
SETTING TIMER

Off timer

This function allows you to turn off the air conditioner automatically within the time range of 24 hours. Off timer is available while your air conditioner is on.

1. Press the **Off Timer** button on the remote control.

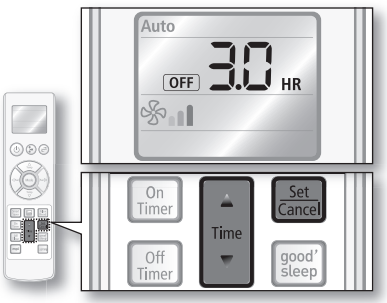
Off timer indicator blinks on the remote control display.



2. Set the time you want the air conditioner to turn off automatically.

Press the **Time** ▲ or ▼ button on the remote control to change the time setting while Off timer indicator is blinking.

You can set the time up to 24 hours, increasing in 30 minute unit up to first 3 hours and in hourly unit after first 3 hours.



3. Press the **Set/Cancel** button on the remote control to active it on.

The remote control display will show the hour(s) you have set for 3 seconds and set desired temperature will display.
The air conditioner will operate automatically at set time and then Off timer indicator stops blinking and stays on. If Off timer is not set within 10 seconds, the air conditioner will end setting.

- When the Off Timer setting is done, you can press the **Off Timer** button again to change the preset time.
  Press the **Time** ▲ or ▼ button to change the time setting and then press the **Set/Cancel** button to active it on.
- You can combine Off timer function with On timer function to turn on and then off the air conditioner at the desired time.(See page 23 for instructions.)

To deactivate the Off timer

1. Press the **Set/Cancel** button on the remote control while Off Timer is on.

Off timer you set will be canceled and Off timer indicator will disappear.

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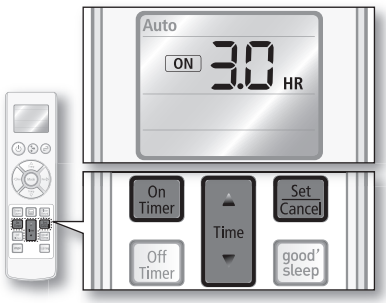
Combining On timer and Off timer

You can combine the On timer and Off timer together for more convenient use of the timer function.

1. Set the On timer.
Press the **On Timer** button.
Set the time with **Time** ▲ or ▼ button.
Press **Set/Cancel** button to activate the On timer.



See page 21 for more detail instructions on setting On timer.

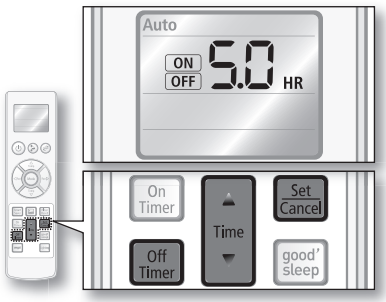
2. Set the Off timer.
Press the **Off Timer** button.
Set the time with **Time** ▲ or ▼ button.
Press **Set/Cancel** button to activate the Off timer.

When you set the time, there can be two possible options:

Preset time of On Timer is shorter than Off Timer

The air conditioner will turn on and then off automatically. Set up should be done while the air conditioner is off.

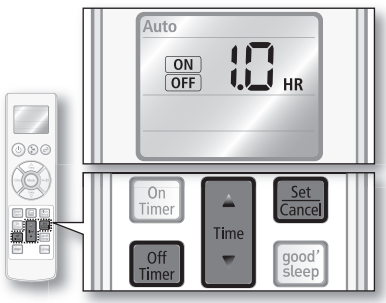
ex.) If the preset time of the On Timer is 3 hours and the Off Timer is 5 hours, the air conditioner will turn on after 3 hours from the moment you have set the timer. Your air conditioner will remain on for 2 hours and then turn off automatically.



Preset time of On Timer is longer than Off Timer

The air conditioner will turn off and then on automatically. Set up should be done while the air conditioner is operating.

ex.) If the preset time of the On Timer is 3 hours and the Off Timer is 1 hour, the air conditioner will turn off an hour after the moment you have set the timer. Your air conditioner will remain off for two hours and then it will turn on automatically.



See page 22 for more detail instructions on setting Off timer.

To deactivate the timer combination

1. Press the **Set/Cancel** button on the remote control while timer combination is on.

Both of the On and Off timer will be canceled and the indicators will disappear.

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using advanced functions

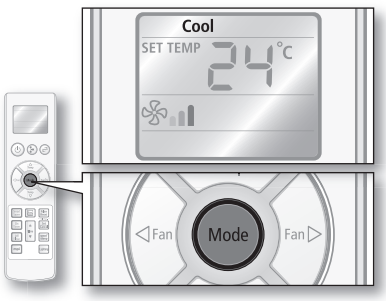
SETTING TIMER

good' sleep mode

good' sleep mode allows you to set a comfortable sleep temperature while saving energy and having sound sleep. **good' sleep** mode can be set up when the air conditioner is on.

1. Set the operating mode.

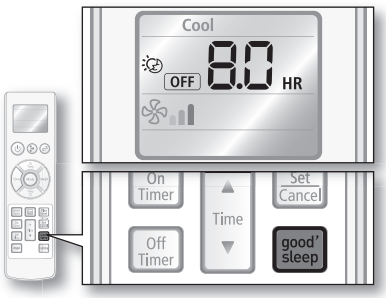
Press the **Mode** button on the remote control until Cool/Heat appears on the remote control display.



good' sleep is only available in Cool/Heat mode.

2. Press the **good' sleep** button on the remote control.

good' sleep indicator appears and Off timer indicator starts blinking on the remote control display.



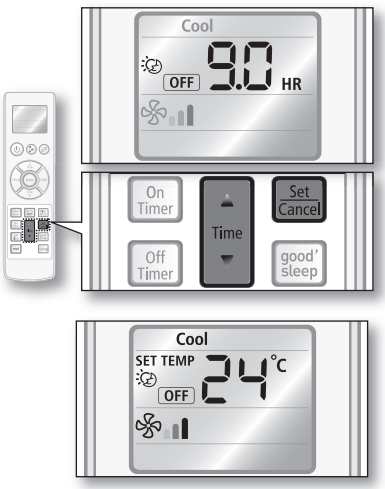
3. Set the length of time you want the air conditioner to stay on.

Default **good' sleep** time is set to 8 hours.
Press **Time** ▲ or ▼ button on the remote control to change the time setting while Off timer indicator is blinking.

You can set the time up to 12 hours, increasing in 30 minute unit up to first 3 hours and in hourly unit after first 3 hours.

4. Press the **Set/Cancel** button on the remote control to active it on.

The remote control display will show the hour(s) you have set for 3 seconds and set desired temperature will display.
When the set time has elapsed, the air conditioner will automatically turn off and then **good' sleep** indicator disappears.
If **good' sleep** mode is not set within 10 seconds, the air conditioner will end setting.



- Temperature/Fan speed/Air swing can be adjusted after setting **good' sleep** in Heat mode.
- Temperature can be adjusted and the air conditioner automatically adjusts the Fan speed/Air swing after setting **good' sleep** in Cool mode.
- If you press the **Mode** button while the **good' sleep** mode is on, it will cancel the mode.

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Temperature changes in good' sleep mode

To prevent excessive cooling/heating during sleep, the **good' sleep** mode automatically modifies the temperature setting in accordance with the time setting. Temperature and air current change according to the three stages; Fall asleep, Sound sleep, and Wake up from **good' sleep** mode, and then the air conditioner will automatically turn off when the set time has elapsed.

Three stage **good' sleep** prevents you from having difficulty sleeping in summer/winter night.

① **Fall asleep** : Eases you into sleep by dropping the temperature.
② **Sound sleep** : Relaxes your body and raises your temperature slightly.
③ **Wake up from good' sleep mode** :
Allows you to wake up from comfortable intermittent air and it makes you feel refresh.

- Set Off timer in **good' sleep** mode over 5 hours. You feel disturbed sleep if the **good' sleep** is set too short or long because the default is set to 8-hour-operation.
- If the **good' sleep** mode is set less than 4 hours, the operation will stop at the set time. If the **good' sleep** mode is set over 5 hours, it will run as Wake up stage for the last one hour before stop.
- Recommended set temperature is between 25℃~27℃ for cooling and 21℃~23℃ for heating.

To deactivate good' sleep mode

1. Press the **Set/Cancel** button on the remote control while **good' sleep** mode is on.
   good' sleep mode you set will be canceled and **good' sleep** indicator will disappear.

ENGLISH

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using advanced functions

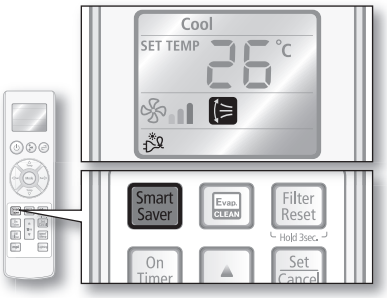
USING THE SMART SAVER FUNCTION

This function will set the temperature range limit to help you save energy while the air conditioner is operating in Cool mode.

1. Press the **Smart Saver** button on the remote control while the air conditioner is operating in Cool mode.

   Smart Saver indicator and air swing indicator appears automatically on the remote control display.
   The air flow blades move up and down.

   If the current set temperature is lower than 24ºC, it will automatically raise to 24ºC.



- Smart Saving function is only available in Cool mode.
- When Smart Saving function is activated, temperature range will be limited to 24ºC~30ºC.
- If the desired temperature is lower than 24ºC, turn off the Smart Saving function by pressing the **Smart Saver** button again.
- Temperature/Fan speed can also be adjusted. (See step 3~4 on page 15 for instructions.)
- Air flow can be adjusted manually. (See page 19 for instructions.)
- If you press the **Mode** button while the Smart Saver function is on, it will cancel the function.

To deactivate the Smart Saver function

1. Press the **Smart Saver** button on the remote control while Smart Saver function is on.

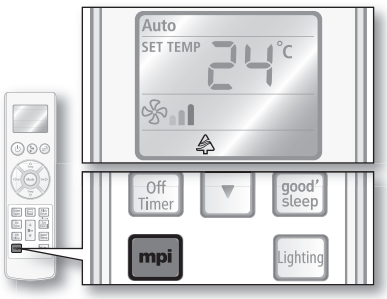
   Smart Saving function you set will be canceled and Smart Saving indicator will disappear on the remote control display.

USING THE mpi FUNCTION

mpi (micro plasma ion) generates hydrogen(H) and oxygen(O_2) to remove a polluted substance and decomposition of such harmful particles. It makes you breathe better as if you are staying around waterfalls, ocean surf, rivers and mountains.

1. Press the **mpi** button on the remote control.

   mpi indicator will appears on the remote control display and the air conditioner generates MPI.



- The **mpi** function can be selected whether the air conditioner is on/off.
- The **mpi** function will be on automatically when you turn on the air conditioner.

To deactivate mpi function

1. Press the **mpi** button on the remote control while **mpi** function is on.

   mpi function you set will be canceled and blue light will turn off.

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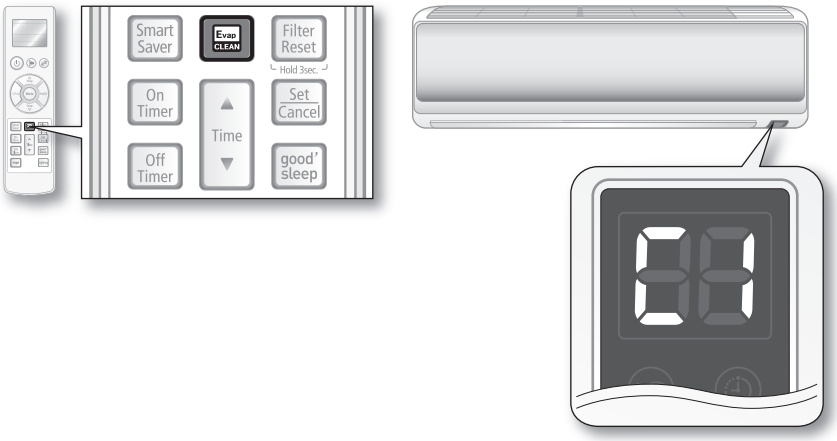
USING THE EVAPORATOR CLEAN FUNCTION

Evaporator clean function will prevent from growing mold by eliminating the moisture inside of the indoor unit. Your indoor unit evaporates the moisture inside of the unit. Activate this function to provide you with more clean and healthier air.

1. Press the **Evap. CLEAN** button.

The Evaporator clean indicator appears only on the indoor unit display as (Clean).
When the air conditioner is turned on, the Evaporator clean function runs after stopping the air conditioner operation.



▶ When the air conditioner is turned off,
The Evaporator clean indicator on the indoor unit display appears and the Evaporator cleaning function runs.

▶ When the air conditioner is turned on,
The Evaporator clean indicator on the indoor unit display appears and the Evaporator cleaning function runs after stopping the air conditioner operation.

Evaporator Cleaning time can vary, depending on the previously used mode.

Auto(cool), Cool, Dry mode : approximately 30 minutes.
Auto(heat), Heat, Fan mode : approximately 15 minutes.

ENGLISH

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cleaning and maintaining the air conditioner

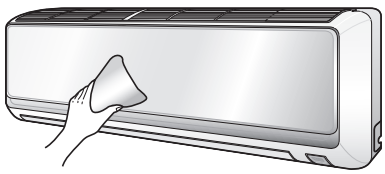
CAUTION **Make sure the power is turned off and unplugged from the wall socket when cleaning the air conditioner.**

If system contains 3 kg or more of fluorinated greenhouse gases. In this case, it has to be checked for leakage at least once every 12 months, according to regulation n°842/2006. This activity has to be covered by qualified personnel only.

In the case above, a maintenance book has to be available for each unit installed.

CLEANING THE EXTERIOR

1. Wipe the surface of the unit with a slightly wet or dry cloth when needed.



CAUTION Do not use Benzene, Thinner or Clorox™.
They may damage the surface of the air conditioner and can create a risk of fire.

USING THE FILTER RESET

The Filter clean remider will light up on the indoor unit display to notify you that the filter needs cleaning. After cleaning filter, press and hold **Filter Reset** button for 3 seconds to reset the Filter clean reminder. Filter clean reminder will be turned off.

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CLEANING THE FILTER

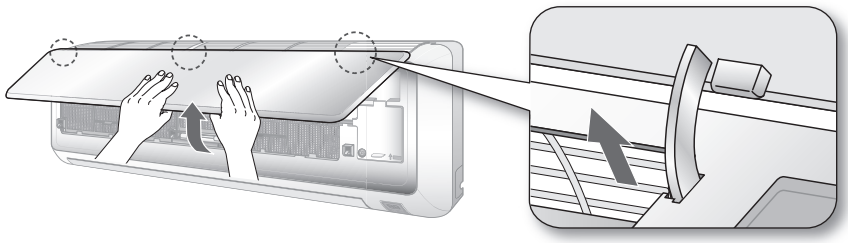
When cleaning the filter, make sure to unplug the power from the unit. No special tools are needed to clean it.

Air filter

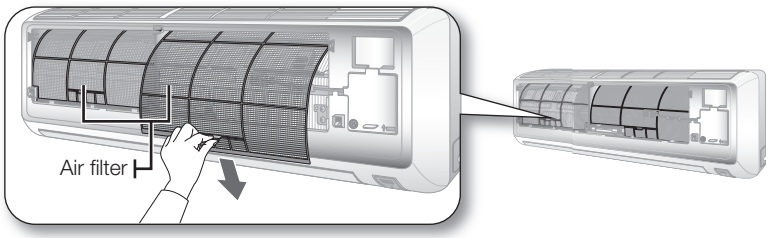
Washable foam based air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing.

1. Open the front panel.

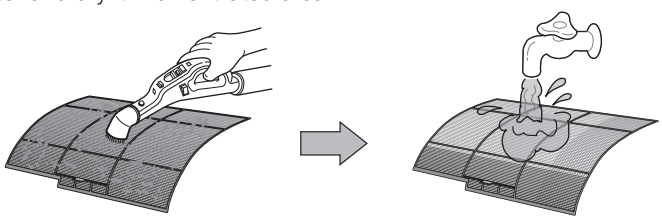
Tightly grab front side of the front panel and lift up the panel to open.
Then slightly push the panel up until the panel is hanged over the hooks of the unit.



2. Grab the handle and lift it up. Then, pull the Air filter towards you and slide it down.



3. Clean the Air filter with a vacuum cleaner or soft brush. If dust is too heavy, then rinse it with running water and dry it in a ventilated area.



- For the best conditions, repeat every two weeks.
- If the Air filter dries in a confined(or humid) area, odors may generate. If it occurs, re-clean and dry it in a well-ventilated area.

4. Insert the Air filter back in its original position.

5. Close the front panel.

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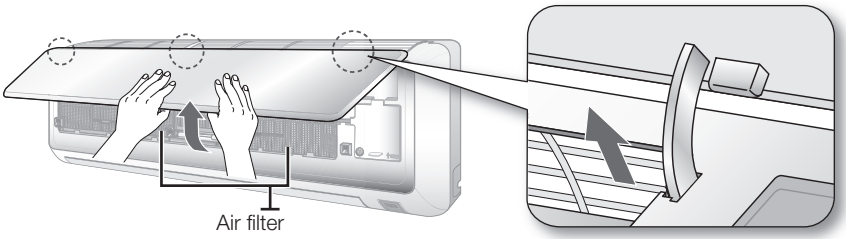
cleaning and maintaining the air conditioner

Bio filter

Washable foam based Bio filter leads to reduction in allergens that thrive in polluted air.
The filter is cleaned with a vacuum or by hand washing.

1. Open the front panel.

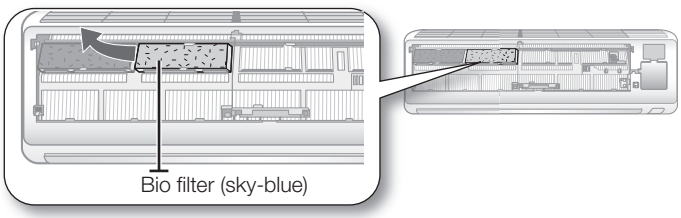
Tightly grab front side of the front panel and lift up the panel to open.
Then slightly push the panel up until the panel is hanged over the hooks of the unit.



2. Remove the Air filter.

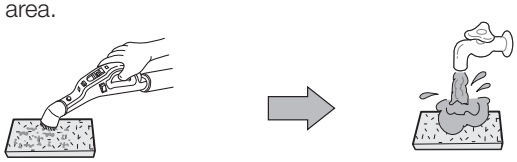
Grab the handle and lift it up. Then, pull the Air filter towards you and slide it down.

3. Slide the Bio filter(color in sky-blue) out to remove it from the slot.



Bio filter can be placed in any 4 slots beneath the air filter.

4. Clean the Bio filter with a vacuum cleaner or soft brush. Then rinse it with running water and dry it in a ventilated area.



5. Install the Bio filter back in position.

6. Close the front panel.

Clean the Bio filter every 3 months. The cleaning term may differ on usage and environmental conditions.

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REPLACING THE FILTER

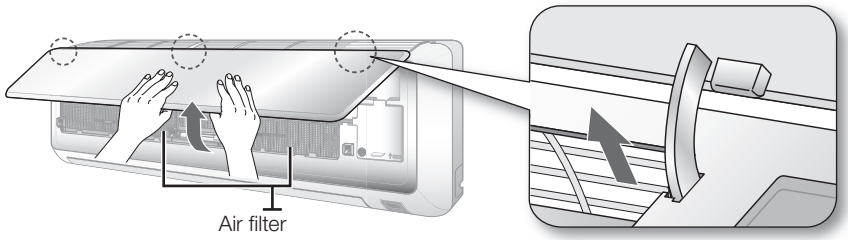
Replacement filter may be purchased from the retail store or ordered from the dealer where you purchased the unit. If you cannot find one, please call a contact center.

Deodorizing filter

Deodorizing filter absorbs efficiently cigarette smoke, pet odors and other unpleasant smells. Deodorizing filter cleaning is simple, just remove old filter and install a new one.

1. Open the front panel.

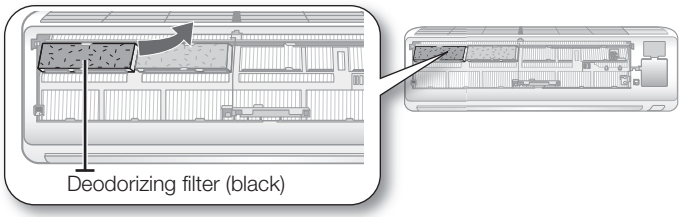
Tightly grab front side of the front panel and lift up the panel to open.
Then slightly push the panel up until the panel is hanged over the hooks of the unit.



2. Remove the Air filter.

Grab the handle and lift it up. Then, pull the Air filter towards you and slide it down.

3. Slide the Deodorizing filter(color in black) out to remove it from the slot.



Deodorizing filter can be placed in any 4 slots beneath the air filter.

4. Install the new Deodorizing filter back in position.

5. Close the front panel.

- Durability of the Deodorizing filter can be different depending on usage and environmental conditions. However, it is recommended to change the Deodorizing filter once a year.
- Even if Deodorizing and Bio filters are installed in an inverted position, it will not affect its filtration system.

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cleaning and maintaining the air conditioner

MAINTAINING YOUR AIR CONDITIONER

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and disconnect the power plug. There may be internal damage if moisture is left in components.
2. Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.

Periodical checks

Refer to the following chart to maintain the air conditioner properly.

Type	Description	Every 2 weeks	Every 3 months	Every 4 months	Once a year
Indoor unit	Clean the air filter (1)	●			
	Clean the bio filter (1)		●		
	Replace the deodorizing filter (1)				●
	Clean the condensate drain pan (2)				●
	Thoroughly clean the heat exchanger (2)				●
	Clean the condensate drain pipe (2)			●	
	Replace the remote control batteries (1)				●
Outdoor unit	Clean the heat exchanger on the outside of the unit (2)			●	
	Clean the heat exchanger on the inside of the unit (2)				●
	Clean the electric components with jets of air (2)				●
	Verify that all the electric components are firmly tightened (2)				●
	Clean the fan (2)				●
	Verify that all the fan assembly is firmly tightened (2)				●
	Clean the condensate drain pan (2)				●

● : This check mark requires checking the indoor/outdoor unit periodically, following to the description to maintain the air conditioner properly.

The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner. The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

(1) The described operations should be performed more frequently if the area of installation is very dusty.

(2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

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Internal protections via the unit control system

This internal protection operates if an internal fault occurs in the air conditioner.

Type	Description
Against cold air	The internal fan will be off to against cold air when the heat pump is heating.
De-ice cycle	The internal fan will be off to against cold air when the heat pump is heating.
Anti-protection of internal battery	The compressor will be off to protect internal battery when the air conditioner operates in Cool mode.
Protect compressor	The air conditioner does not start operating immediately to protect the compressor of the outdoor unit after it has been started.

If the heat pump is operating in Heat mode, De-ice cycle is actuated to remove frost from an outdoor unit that may have deposited at low temperatures.

The internal fan is switched off automatically and restarted only after the de-ice cycle is completed.

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appendix

TROUBLESHOOTING

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

PROBLEM	SOLUTION
The air conditioner does not operate immediately after it has been restarted.	• Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading. The air conditioner will start in 3 minutes.
The air conditioner does not work at all.	• Check that the power plug is properly connected. Insert the power plug into the wall socket correctly. • Check if the circuit breaker is switched off. • Check if there is a power failure. • Check your fuse. Make sure it is not blown out.
The temperature does not change.	• Check if you selected Fan mode. Press the **Mode** button on the remote control to select another mode.
The cool(warm) air does not come out of the air conditioner.	• Check if the set temperature is higher(lower) than the current temperature. Press the **Temp** △ or ▽ button on the remote control to change the set temperature. Press the **Temp** △ or ▽ button to increase or decrease the temperature. • Check if the air filter is blocked by dirt. Clean the Air filter every two weeks. • Check if the air conditioner has just been turned on. If so, wait 3 minutes.
The fan speed does not change.	• Check if you selected Auto or Dry mode. The air conditioner automatically adjusts the fan speed to Auto in Auto/Dry mode.
Timer function does not set.	• Check if you press the **Set/Cancel** button on the remote control after you have set the time.
Odors permeate in the room during operation.	• Check if the appliance is running in a smoky area or if there is a smell entering from outside. Operate the air conditioner in Fan mode or open the windows to air out the room.
The air conditioner makes a bubbling sound.	• A bubbling sound may be heard when the refrigerant is circulating through the compressor. Let the air conditioner operate in a selected mode.
Water is dripping from the air flow blades.	• Check if the air conditioner has been cooling for an extended period of time with the air flow blades pointed downwards. Condensation may generate due to the difference in temperature.
Remote control is not working.	• Check if your batteries are depleted. • Make sure batteries are correctly installed. • Make sure nothing is blocking your remote control sensor. • Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.
The indoor unit display shows “dF” during the heating mode	• This IS NOT AN ERROR CODE, but the system is informing us it is preforming a regular defrost cycle (melting the ice of outdoor unit heat exchanger). The code “dF” will disappear automatically at the end of defrost.
When the electricity comes again after power failure, the air conditioner automatically starts.	• The air conditioner has power failure memory function. After a sudden power failure, If the electricity comes again, the air conditioner automatically revert to the original operation mode.

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OPERATION RANGES

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

MODE	OPERATIONAL TEMPERATURE		INDOOR HUMIDITY	IF OUT OF CONDITIONS
	INDOOR	OUTDOOR		
COOLING	16˚C to 32˚C	15˚C to 54˚C	80% or less	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.
HEATING	27˚C or less	-5˚C to 24˚C	-	Internal protection triggers and the air conditioner will stop.
DRYING	18˚C to 32˚C	15˚C to 54˚C	-	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.

The standardized temperature for heating is 7˚C. If the outdoor temperature drops to 0˚C or below, the heating capacity can be reduced depending on the temperature condition.
If the cooling operation is used at over 32˚C(indoor temperature), it does not cool at its full capacity.

TECHNICAL SPECIFICATIONS

MODEL			AQ18ESAUMG				AQ24ESAUMG			
STANDARD			ISO		SASO		ISO		SASO	
CAPACITY	COOL		18000BTU/h		3850kcal/h		24000BTU/h		5000kcal/h	
	HEAT		20000BTU/h		5050kcal/h		24000BTU/h		6000kcal/h	
SOURCE			220V~,60Hz							
CURRENT	COOL		8.8A		10.1A		12.0A		13.5A	
	HEAT		8.2A		8.2A		12.0A		12.0A	
INPUT POWER	COOL		1900W		2250W		2600W		2900W	
	HEAT		1900W		1900W		2600W		2600W	
REFRIGERANT	KIND		R22							
	QUANTITY		1100g				1370g			
EER	COOL		9.5		6.8		9.2		6.84	
	HEAT		10.5		10.5		9.2		9.2	
TEMPERATURE	INDOOR	DB(C/H)	27°C	20°C	29°C	21°C	27°C	20°C	29°C	21°C
		WB(C/H)	19°C	-	19°C	-	19°C	-	19°C	-
	OUTDOOR	DB(C/H)	35°C	7°C	46°C	7°C	35°C	7°C	46°C	7°C
		WB(C/H)	24°C	6°C	24°C	6°C	24°C	6°C	24°C	6°C
WEIGHT	INDOOR	NET	13Kg				13Kg			
		CROSS	16Kg				16Kg			
	OUTDOOR	NET	40Kg				56Kg			
		CROSS	44Kg				58Kg			

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AQ09E Series
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Air Conditioner
user manual

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